Larger Acceptance Bucket

- Area within acceptance: 0.166 eV-s.

- Designed bucket area with overhead: 0.2 eV-s

- Tracking: significant loss

  - ◆ Bucket shape

  - ◆ Shape oscillations

- Increase area to 0.277 eV-s (5/3 of acceptance)

- Results (dogbone)

	Before	Now
Bucket Area (eV-s)	0.2	0.277
Passes	10	9
Linac (GeV)	1.782	1.995
Phase ($^\circ$)	17	19
η/B (T^{-1})	0.0151	0.0125
ΔE (MeV)	207	269
Cost (Nrb)	146	166

- Comments

  - ◆ Find more precise acceptance characterization
    - ⋆ Matched ellipse fitting within edge
    - ⋆ Oscillations

  - ◆ How do we inject into bucket?
    - ⋆ Inject something with tail also
    - ⋆ Tail is rotated around